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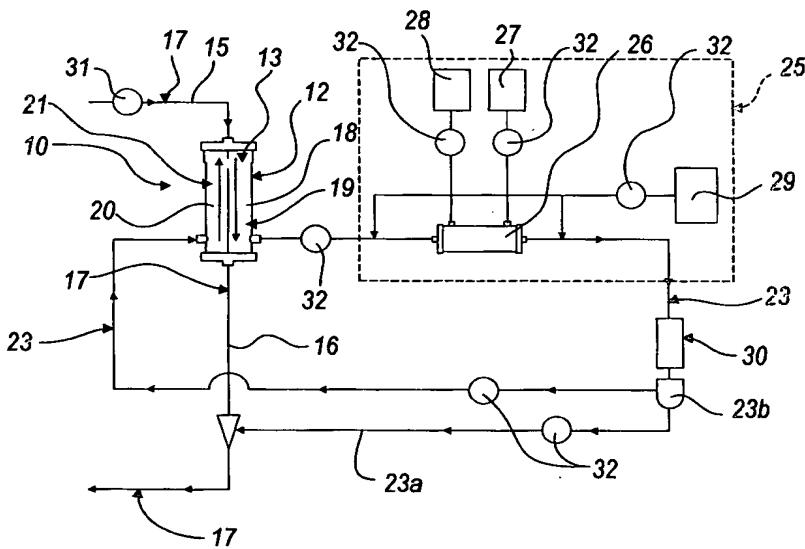
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(57) Abstract: The present invention relates to a machine for performing purification of whole blood that circulates in a flow duct (17) on which there is a stage (19) for filtering plasma from whole blood, which can be functionally arranged in connection to a plasma purification circuit (23); a stage (21) for dialysis of the whole blood by means of plasma purified in the circuit (23) being provided on the flow duct (17); the stage (21) comprising a selectively permeable interface for separating part of the whole blood stream of the duct (17) from a countercurrent stream of plasma purified in the purification circuit (23).